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10	0	(machine near2 learn\$4 ) and (multiple near (choice near quer\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/08/07 15:09
11	1794	machine near learn\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/08/07 15:09
12	851	(machine near learn\$4) and train\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/08/07 16:04
13	192	((voice or handwrit\$4 or speech) near2 recogn\$8 ) and ((machine near learn\$4) and train\$6 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/08/07 15:19
14	185304	reliab\$6 and weight\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/08/07 15:11

15	58465	reliab\$6 and weight\$6 and response	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:18
16	50	((voice or handwrit\$4 or speech) near2 recogn\$8 ) and ((machine near learn\$4) and train\$6 )) and (reliab\$6 and weight\$6 and response)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:12
17	28	((voice or handwrit\$4 or speech) near2 recogn\$8 ) and ((machine near learn\$4) and train\$6 )) and (reliab\$6 and weight\$6 and response)) and internet	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:19
18	229	(machine near learn\$4 ) and (reliab\$6 and weight\$6 and response)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:18
19	131	((voice or handwrit\$4 or speech) near2 recogn\$8 ) and ((machine near learn\$4) and train\$6 )) and database	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:20
20	67	((voice or handwrit\$4 or speech) near2 recogn\$8 ) and ((machine near learn\$4) and train\$6 )) and database) and internet	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:20
21	121	((voice or handwrit\$4 or speech) near2 recogn\$8 ) and ((machine near learn\$4) and train\$6 )) and database) and (internet or network\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:22
22	411376	rul\$6 or question or quer\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 16:05
23	115	((voice or handwrit\$4 or speech) near2 recogn\$8 ) and ((machine near learn\$4) and train\$6 )) and database) and (internet or network\$4)) and (rul\$6 or question or quer\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:26
24	7824	train\$6 near (process or procedure or method)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:26
25	59	((voice or handwrit\$4 or speech) near2 recogn\$8 ) and ((machine near learn\$4) and train\$6 )) and database) and (internet or network\$4)) and (rul\$6 or question or quer\$6)) and (train\$6 near (process or procedure or method))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:26
26	1230	((voice or speech or speak or spok\$4) and handwrit\$4) near2 recogn\$8	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 16:04
27	939	(machine near2 learn\$4) and train\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 16:05
28	28	((voice or speech or speak or spok\$4) and handwrit\$4) near2 recogn\$8 ) and ((machine near2 learn\$4) and train\$6 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 16:10

29	35065	(rul\$6 and (question or quer\$6))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/08/07 16:06
30	15	(reliab\$6 and weight\$6 and response) and (((voice or speech or speak or spok\$4) and handwrit\$4) near2 recogn\$8 ) and ((machine near2 learn\$4) and train\$6 ))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/08/07 16:06
31	13	(((voice or speech or speak or spok\$4) and handwrit\$4) near2 recogn\$8 ) and ((machine near2 learn\$4) and train\$6 )) not ((reliab\$6 and weight\$6 and response) and (((voice or speech or speak or spok\$4) and handwrit\$4) near2 recogn\$8 ) and ((machine near2 learn\$4) and train\$6 )))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/08/07 16:10
-	201	(706/10).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/06/25 19:19
-	1231	machine near learn\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/08/07 14:53
-	37511	quer\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/08/07 14:54
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-	49673	(voice or handwrit\$4) and recogni\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/08/07 14:53
-	1298	(voice and handwrit\$4) and recogni\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/06/25 19:21
-	215114	weight and response	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/08/07 14:54
-	199	(machine near learn\$4) and quer\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/06/25 19:22
-	96	((machine near learn\$4) and quer\$4) and (train\$4 and network)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/06/25 19:26
-	0	(weight and response) and (((voice and handwrit\$4) and recogni\$6) and (((machine near learn\$4) and quer\$4) and (train\$4 and network)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/06/25 19:22

-	5	((voice and handwrit\$4) and recogni\$6) and (((machine near learn\$4) and quer\$4) and (train\$4 and network))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/06/25 19:22
-	91	((machine near learn\$4) and quer\$4) and (train\$4 and network)) not (((voice and handwrit\$4) and recogni\$6) and (((machine near learn\$4) and quer\$4) and (train\$4 and network)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/06/26 12:02
-	436	(706/45).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/06/26 12:03
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-	1485	machine near learn\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/01/21 12:40
-	5884	train\$4 and quer\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/01/21 12:41
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-	4238	train\$4 and network and quer\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/01/24 17:16
-	176	(machine near learn\$4 ) and (train\$4 and network and quer\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/01/24 17:37
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# Using Deformable Templates to Infer Visual Speech Dynamics (1994) (Make Corrections) (23 citations)

Marcus E. Hennecke, K. Venkatesh Prasad, David G. Stork

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**Abstract:** The visual image of a talker provides information complementary to the acoustic speech waveform, and enables improved recognition accuracy, especially in environments corrupted by high acoustic noise or multiple talkers. Because most of the phonologically relevant visual information is from the mouth and lips, it is important to infer accurately and robustly their dynamics; moreover it is desirable to extract this information without the use of invasive markers or patterned illumination. We... ([Update](#))

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.... This is an even more difficult task for pixel based systems, but the use of e.g. active shape models [11] or deformable templates [9, 10] to track the lip contours removes the possibility of learning any other visual cues that may be significant. The one dimensional...

.... stage should reduce the the visual input to the least amount of hand crafted features as possible, such as deformable templates [13]. This type of approach has the advantage that the number of visual inputs are drastically reduced potential speeding up subsequent...

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8: Surface learning with applications to lipreading - Bregler, Omohundro - 1994

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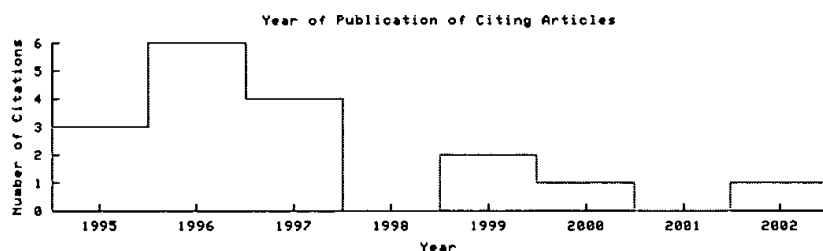
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 marcush@leland.stanford.edu prasad@crc.ricoh.com **stork**@crc.ricoh.com Abstract The visual image of a  
 acoustic speech waveform, and enables improved **recognition** accuracy, especially in environments corrupted  
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Speaker Independent Audio-Visual Database For Bimodal Asr - Potamianos, Cosatto, Graf.. (1997) (Correct) (5 citations)

lip-reading, or speech-reading (Petajan, 1984 **Stork** and Hennecke, 1996)In many cases, and  
 community wish list (Chibelushi et al.1996 **Stork** and Hennecke, 1996)In this paper we describe  
 Labs-Research for the study of bimodal speech **recognition**. To date, this database consists of two  
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Fast Matching of a Dynamic Lip Model to Color Video Sequences.. - Vogt (1996) (Correct) (7 citations)

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performance drop in purely acoustic **recognition**. **Stork** et al. 27] measured the position of ten  
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Lip Modeling for Visual Speech Recognition - Ram Rao (1994) (Correct) (6 citations)

acoustic noise. Work by Finn and Montgomery [1] and **Stork**, Wolff, and Levine [2] has shown that the  
 feature extraction has been proposed by Prasad, **Stork** and Wolff [3]In this paper, we will outline a

Lip Modeling for Visual Speech **Recognition** Ram R. Rao Russell M. Mersereau School of  
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An Interface for Melody Input - Prechelt, Typke (1998) (Correct) (1 citation)

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Preprocessing Video Images for Neural Learning of Lipreading - Venkatesh Prasad (Correct) (5 citations)

of lipreading K. Venkatesh Prasad, David G. Stork, Gregory J. Wolff Machine Learning and We build upon the basic architectural recognizer of Stork, Wolff and Levine [8]but extend it to grayscale both visual and acoustic information for speech **recognition**, the visual features employed are sufficiently mambo.ucsc.edu/psl/tr93-26.ps

The Baldwin Effect in the Immune System: Learning by... - Hightower, Forrest, al. (Correct) (4 citations)

is more similar to the experiments of Keesing and Stork [3] than the Hinton and Nowlan experiment [2] given a task with finite difficulty. Keesing and Stork [3] demonstrated a similar effect with a neural and thereby lead to their elimination. Antigen **recognition** is essentially a form of template ftp.cs.unm.edu/pub/forrest/baldwin.ps.gz

Modularity and Catastrophic Fusion: A Bayesian Approach with ... - Movellan, Mineiro (1996) (Correct) (1 citation)

Tamura, Mitsumoto, Kawai, Kurosu & Okazaki, 1991 Stork, Wolff & Levine, 1992 Bregler, Manke & Waibel, Bregler, Omohundro & Konig, 1994 Wolff, Prasad, Stork & Hennecke, 1994 Hennecke, Prasad & Stork, 1994 Approach with Applications to Audiovisual Speech **Recognition** Javier R. Movellan & Paul Mineiro Department cogsci.ucsd.edu/pub/tr/97.01.ps.Z

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Efficient Evaluation of Classification and Recognition Systems - Micheals, Boulton (2001) (Correct)

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G-Prop: Global Optimization of Multilayer Perceptrons ... - Castillo, Merelo.. (2000) (Correct)

encoding (Schraudolph and Belew [27] Keesing and Stork [28] proposed a method that combines a GA and rate of evolution, as it is proposed by Keesing and Stork [28] Finally, the presented algorithm will be used in many elds, especially for pattern **recognition**, due to its learning ability, it does geneura.ugr.es/pub/papers/castilloNC.ps.gz

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Choosing an Optimal Neural Network Size to Aid a Search.. - Messer And Kittler (1998) (Correct)  
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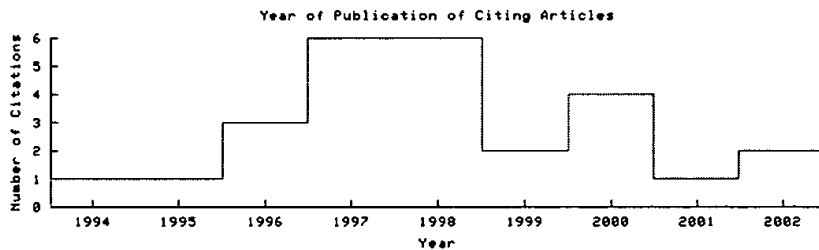
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